

ABSTRACT OF THE DISCLOSURE

An athermal optical device and a method for producing the device, such as an  
athermal optical fiber reflective grating, are described. The athermal optical fiber  
5      reflective grating device comprises a negative expansion substrate, an optical fiber  
mounted on the substrate surface, and a grating defined in the optical fiber. The method  
for producing the athermal optical fiber reflective grating device comprises providing a  
negative expansion substrate, mounting an optical fiber with at least one reflective  
grating defined therein onto the substrate upper surface, and affixing the optical fiber to  
10     the substrate at at least two spaced apart locations.

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